

FIG. 1

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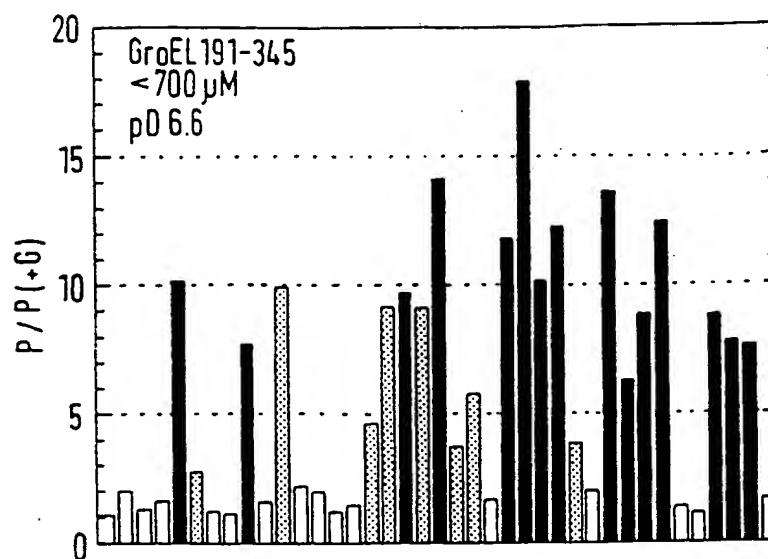


FIG. 2a

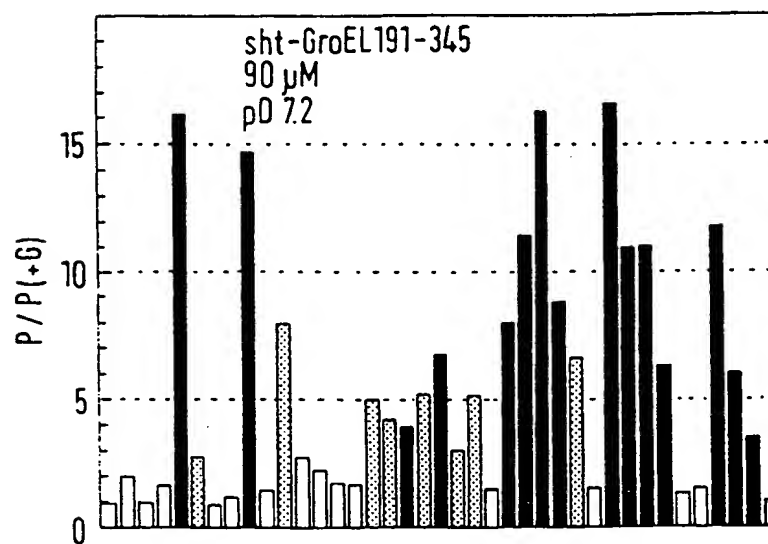


FIG. 2b

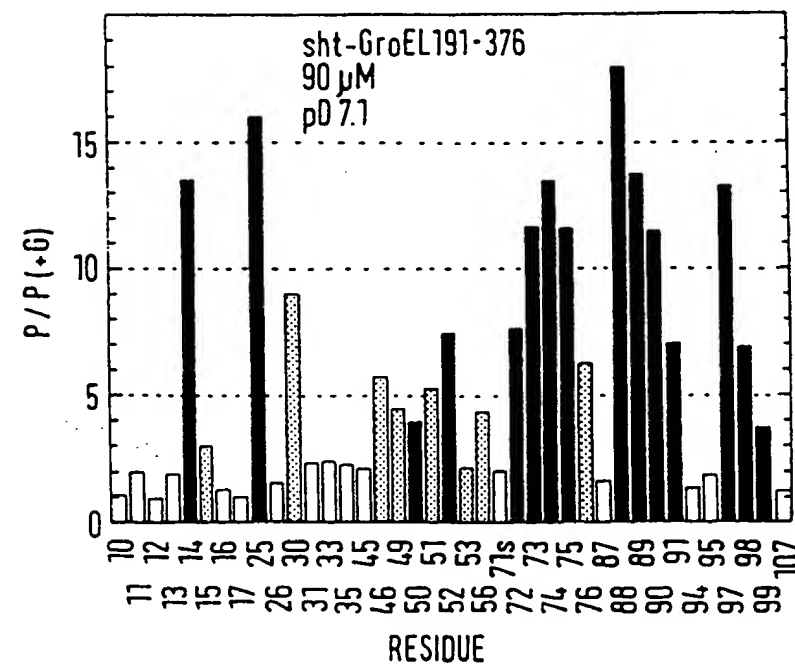


FIG. 2c

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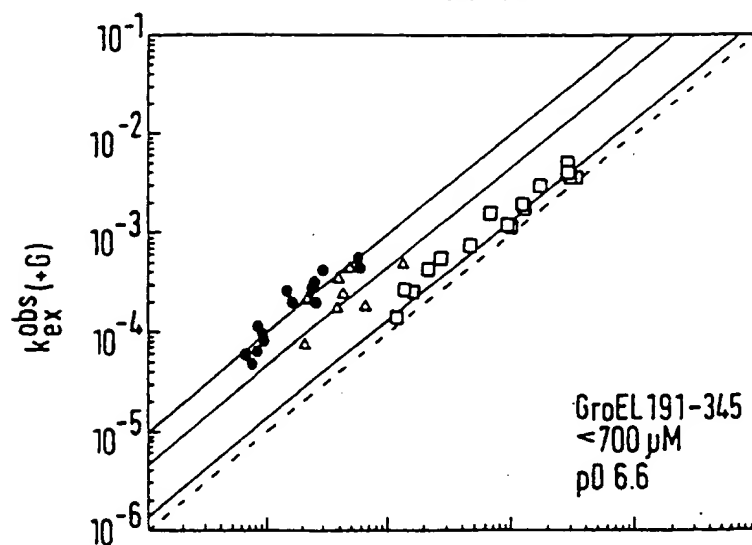


FIG. 2d

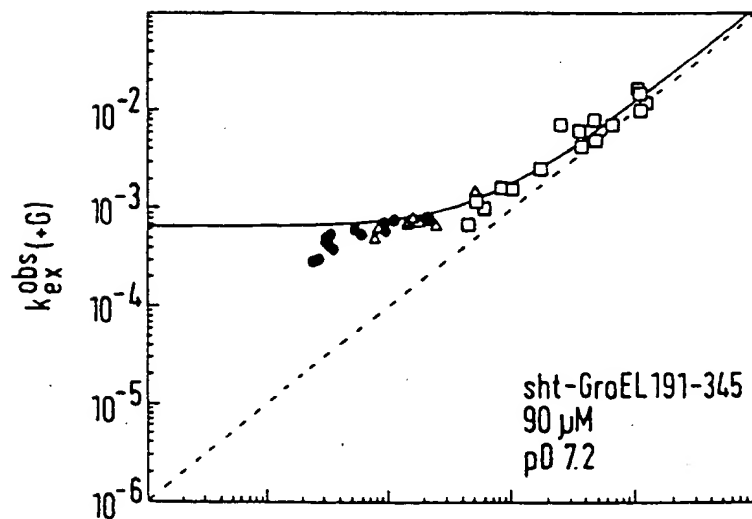


FIG. 2e

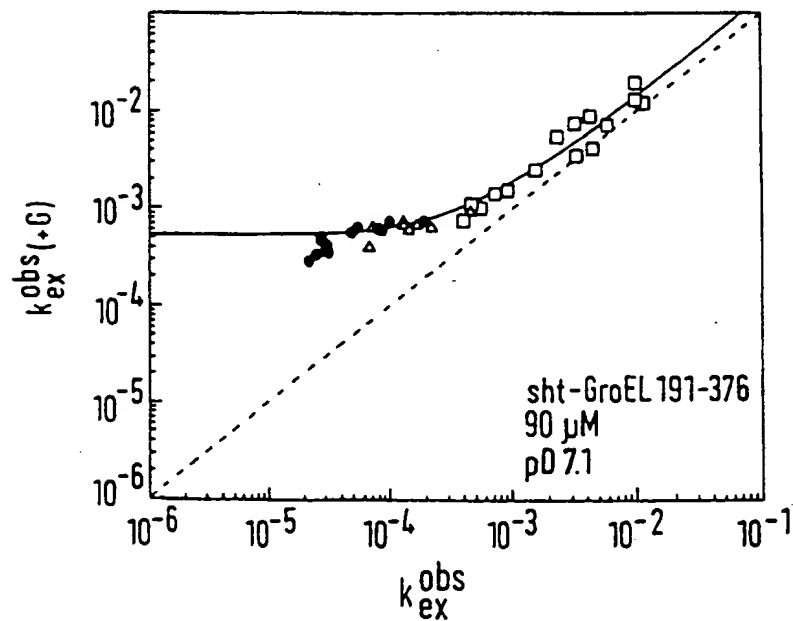


FIG. 2f

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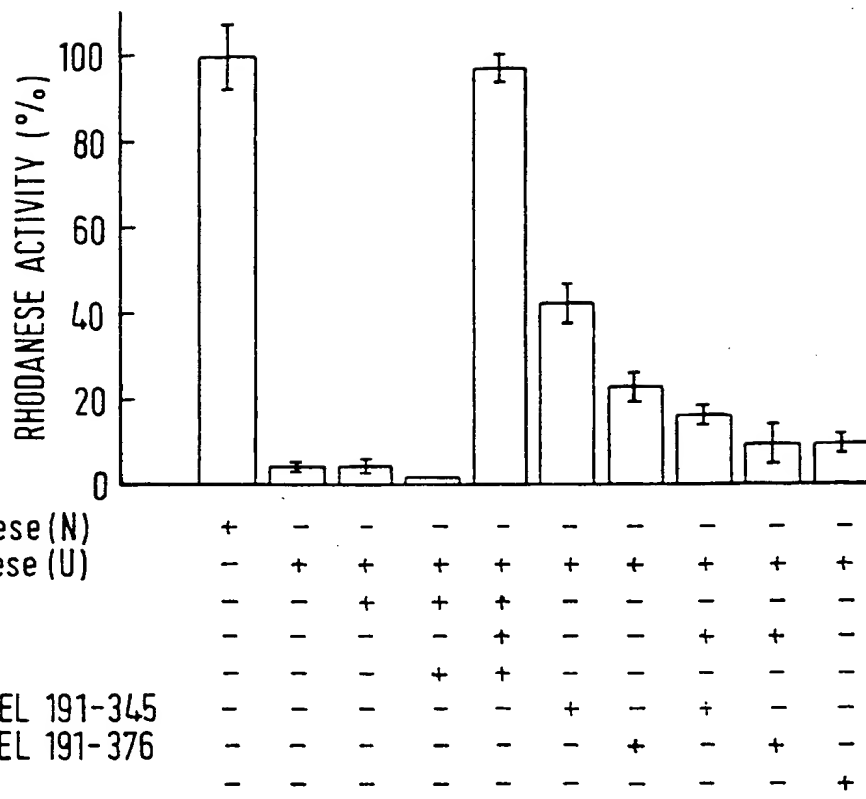
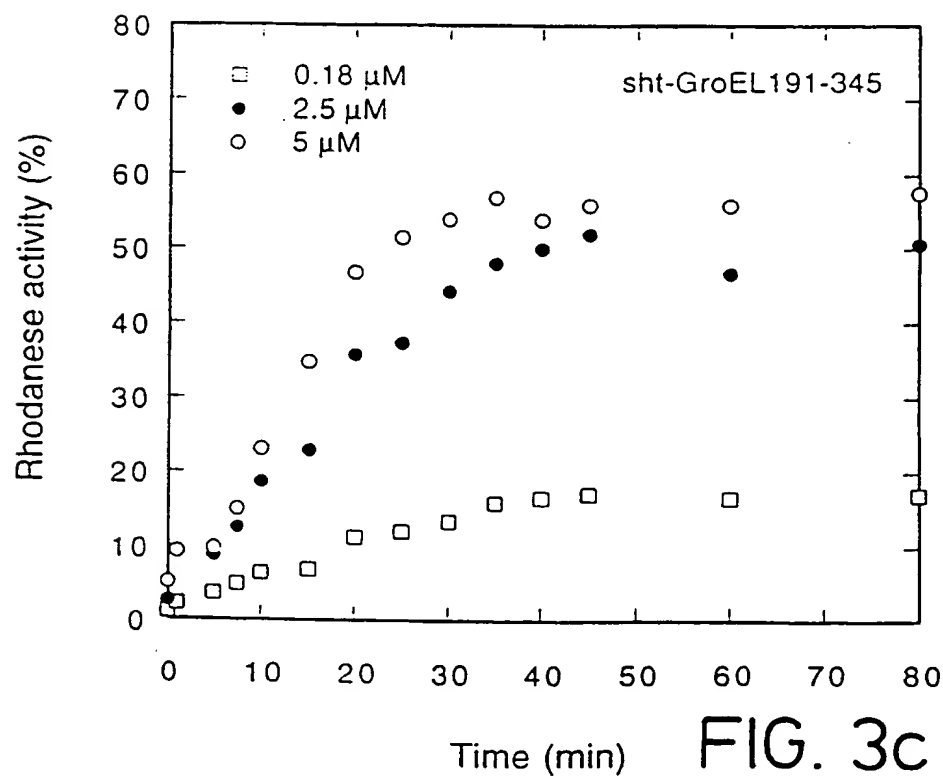
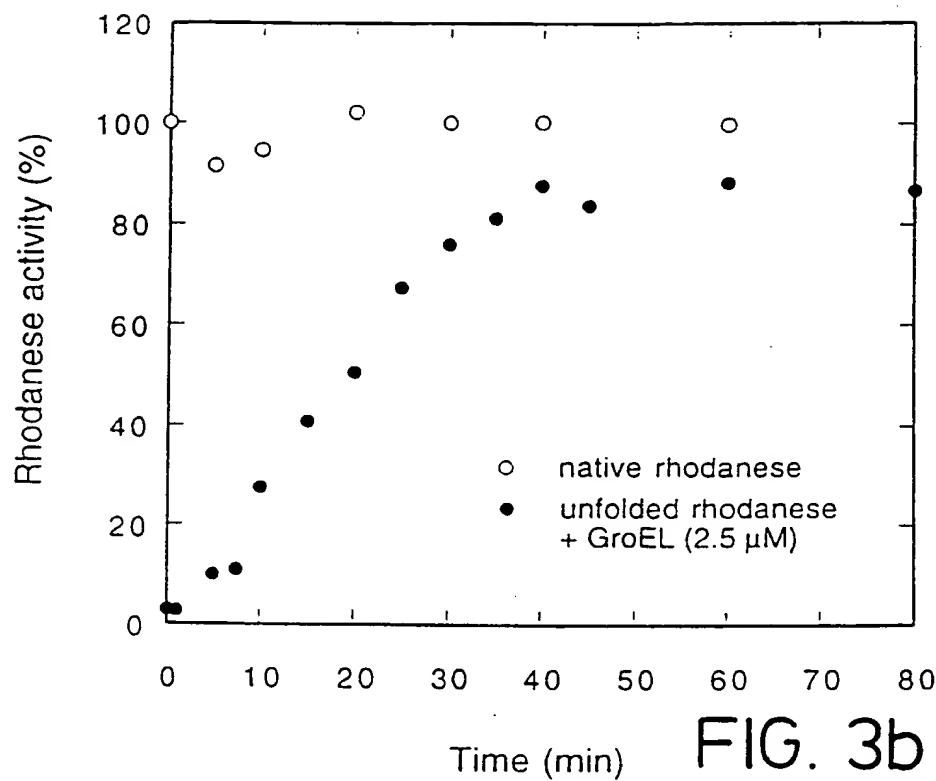


FIG. 3a

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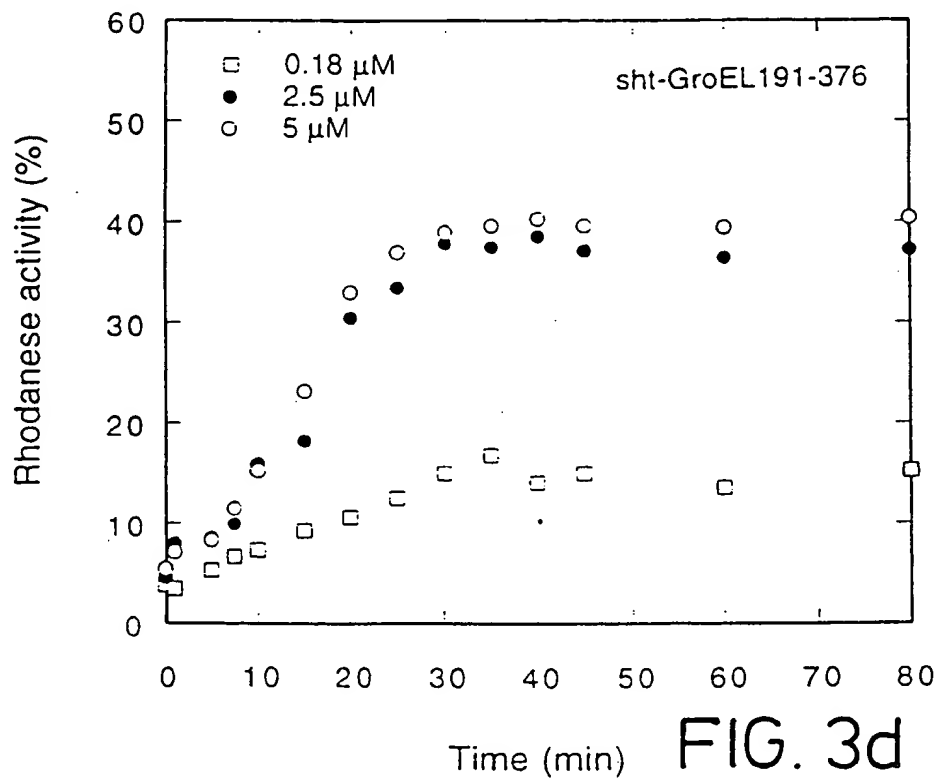


FIG. 3d

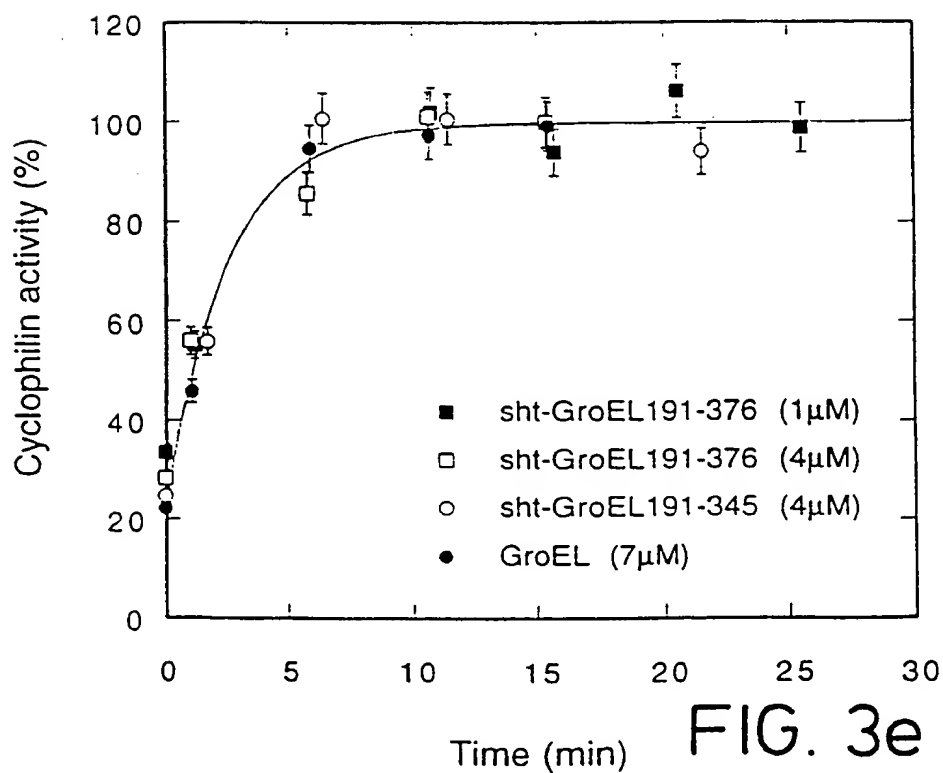


FIG. 3e

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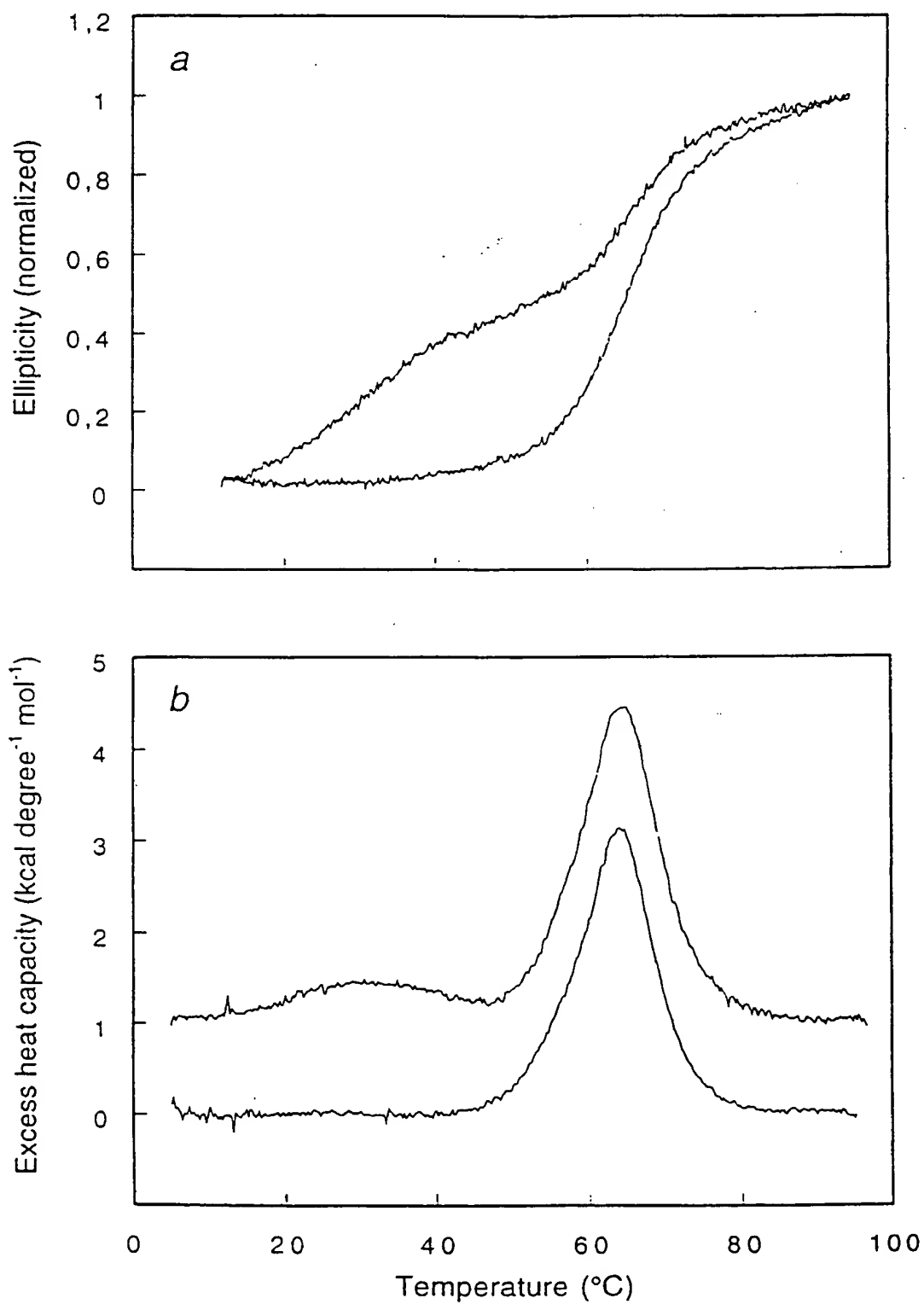


FIG. 4

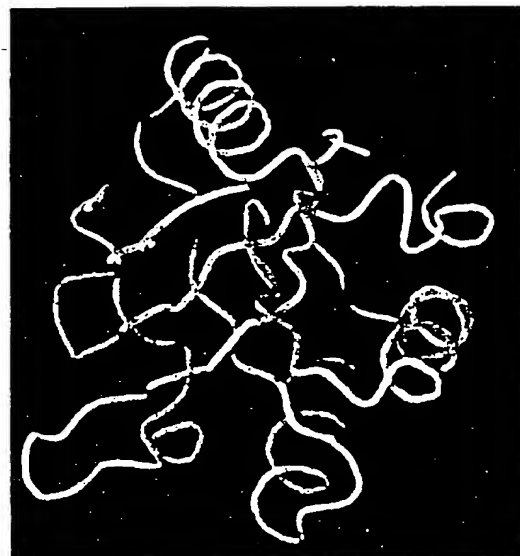


FIG. 5b

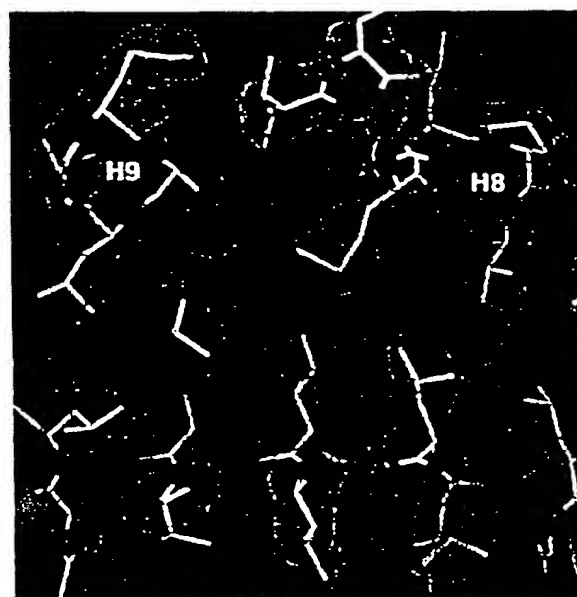


FIG. 5c



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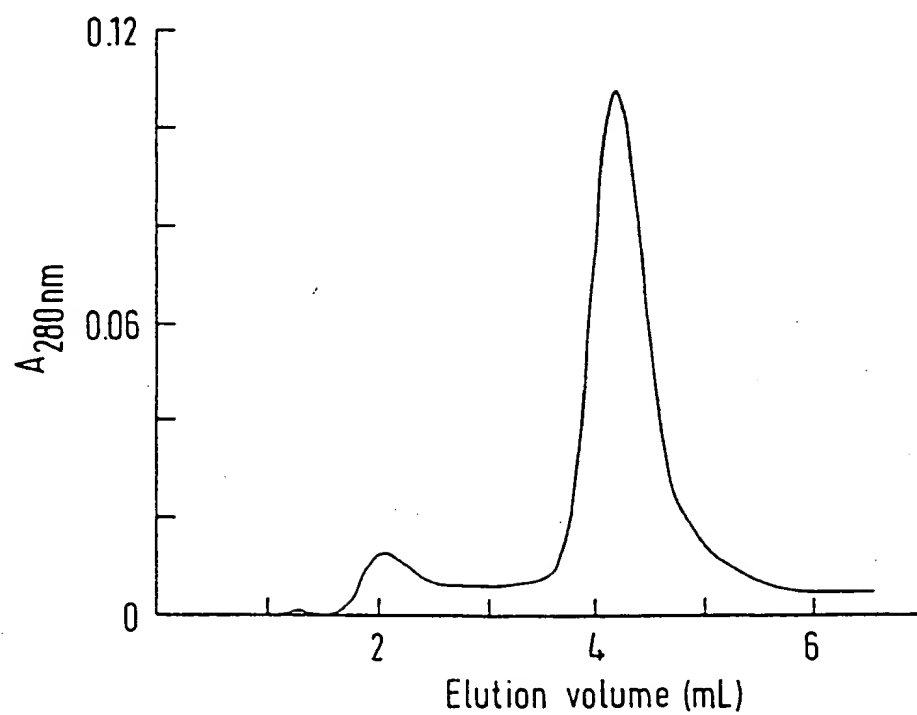


FIG. 6

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1	M	
61		AAKDVKFCND ARVKMLRGVN VLADAVKVTL GPKGRNVVLD KSFCAPTITK DGVSVAREIE
121		LEDKFENMGA QMVKEVASKA NDAAGDGTIT ATVLAQAIIIT EGLKAVAAGM NPMDLKRGID
181		KAVTAAVEEL KALSVPCSDS KAI AQVGTIS ANSDETVGKL IAEAMDKVGK EGVITVEDGT
241		GLQDELDVVE GMQFDRGYLS PYFINKPETG AVELESPFIL LADKKISNIR EMLPVLEAVA
301		KAGKPLIIA EDVEGEALAT AVVNTIRGIV KVAAVKAPGF GDRRKAMLQD IATLTGGTVI
361		SEEIGMELEK ATLEDLGQAK RVVINKDITTT IIDGVGEEAA IQGRVAQIRQ QIEEATSDYD
421		REKLQERVAK LAGGVAVIKV GAA TEVEMKE KKARVEDALH ATRAAVEEGV VAGGGVALIR
481		VASKLADLRG QNEDQNVGK VALRAMEAPL RQIVLNCGEE PSVVANTVKG GDGNYGYNAA
541		TEEYGNMIDM GILDPTKVTR SALQYAASVA GLMITTECMV TDLPKNDAAD LGAAGGMGGM
548		GGMGGMM

FIG. 7

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## SUBSTITUTE SHEET (RULE 26)

	230	240	250	260	270
CH60_ECOLI_190	IREMLPVLEAV.				
CH60_SALTI_190	IREMLPVLEAV.				
S56371_191	IREMLPVLEAV.				
CH60_LEPIN_190	MKDLIHILEKV.				
S47530_191	LKEMPLILEQT.				
LPNHTPBG_190	IREMLSVLEGV.				
CH60_ACTAC_189	IRELLPVLEGV.				
JC4519_191	IRELLPVLEGV.				
CH60_BRUAB_191	LQALLPVLEAV.				
CH60_HAEIN_191	IRELLPVLEGV.				
CH60_CAUCR_190	LQPLPVLEAVV.				
CH60_AMOPS_190	IRDMLSVLEAV.				
CH60_HAEDU_191	IREILPVLEAV.				
CH61_RHIME_191	LQAMPLPVLEAV.				
CH60_LEGMI_190	IRDMLSVLEAV.				
CH60_YEREN_191	IREMLPVLEAV.				
CH63_BRAJA_190	LNEILLPLEAV.				
CH60_PORGI_191	LKEMPLILEQT.				
S52901_191	IREMLPVLEAV.				
S26423_191	IREMLPVLEAV.				
RSU373691_191	LQPMVPLEAV.				
CH62_BRAJA_190	LNEILLPLEAV.				
CH60_ACYPS_191	VREMLPILSV.				
CH63_RHIME_191	LQAMPLPVLEAV.				
YEPHSPCRP1_191	IREMLPVLEAV.				
CH60_BORPE_191	IRDLLPVLEQV.				

FIG. 9(a)

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BRUGRO1_189      LQALLPVLEAV.....VQTSKPLLI IAEDVEGERLATLVVNKLRRGGL
CH60_PSEAE_191   IREMLPVLEAV.....AKAGRPLLI IVAEDVEGEALATLVVNNMRGIV
CH60_BARBA_190   LQSLLPVLEAV.....AQSGKPLLI IAEDVEGEALATLVVNKLRRGGL
BAOBB63A_191     LQSLLPVLEAV.....VQSGKPLLI IAEDVEGEALATLVVNKLRRGGL
CH60_BACST_189   IQEILPVLEQV.....VQOGRPLLI IAEDVEGEALATLVVNKLRRGTF
CH60_BACSU_188   IQEILPVLEQV.....VQOGRPLLI IAEDVEGEALATLVVNKLRRGTF
CH60_AGRU_191    LQAMLPVLEAV.....VQTGKPLVI IAEDVEGERLATLVVNKLRRGGL
B369I7_191       LQAMLPVLEAV.....VQTGKPLVI IAEDVEGERLATLVVNKLRRGGL
PAU17072_191     IREMLPVLEAV.....AKAGRPLLI IVAEDVEGEALATLVVNNMRGIV
CH60_RHILV_191   LQSMPLPVLEAV.....VQTGKPLLI IVAEDVEGEALATLVVNKLRRGGL
CH61_STRCO_187   IADLLPLEKVI.....QANASKPLLI IAEDLEGEALSTLVVNKIRGTF
CH60_COXBU_191   IRELIPLENV.....AKSGRPLLI IVAEDIEGEALATLVVNNIRGVV
CH62_RHIME_191   LQAMIPILESV.....IQSGKPLLI IAEDVEGEALATLVVNKLRRASL
PSEGR0ESL1_191   IREMLPVLEAV.....AKAGRPLLI IVAEDVEGEALATLVVNNMRGIV
CH61_SYNY3_189   VQDLVPILEQV.....ARQKPLLI IAEDIEKEALATLVVNRLRGVL
CH60_CLOTM_189   IQDILPLEQI.....VQOQKPLVI IAEDVEGEALATLVVNKLRRGTF
CH60_PSEPU_191   SRAAATERA.....SAGRPLLI IVAEDVEGEALATLVVNNMRGIV
CH60_SYNP7_190   VQDLVPILEQV.....ARAGRPLVI IAEDIEKEALATLVVNRLRGVL
CH60_GALSU_190   VQDILLPVLEQI.....AKTNKPLLI IAEDIEKEALATLVVNKLRRGIL
CH60_ZYMO_190    LQSIPLILESV.....VQSGRPLLI IAEDIEGEALATLVVNKLRRGGL
JC2564_191       LQSIPLILESV.....VQSGRPLLI IAEDIEGEALATLVVNKLRRGGL
CH60_CHRVI_191   IRDLLPVLEGV.....AKAGKPLLI IAEDVEGEALATLVVNTIRGIV
CH60_MYCTU_189   VKDLLPLEKV.....IGAGKPLLI IAEDVEGEALSTLVVNKIRGTF
CH60_NEIME_191   IRDLLPVLEKV.....AKASRPLLI IAENVEGEALATLVVNNIRGIL
CH60_TREPA_189   MKDLLPLEKI.....AQTRPLLI IAEDVEGEALATLVVNSLRGTL
CH60_HELPY_190   MKDILPLEKT.....MKEGKPLLI IAEDIEGEALTTLVVNKLRRGVL
CH60_NEIGO_191   IRDLLPVLEQV.....AKASRPLLI IAEDVEGEALATLVVNNIRGVL
CH61_CUCMA_222   INAVVKVLELA.....LKKQRPLLI VSEDVESEALATLILNKLRRAGI
CH60_MYCPA_189   VKDLLPLEKV.....IQAGKPLLI IAEDVEGEALSTLVVNKIRGTF
MPU15989_230     VKDLLPLEKV.....IQAGKPLLI IAEDVEGEALSTLVVNKIRGTF

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FIG. 9(b)



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CH60_EHRCH_191	IQIPLILENV	.....	ARSGRPLLI	IAEDVEGEALSTLVNKL	RGGGL
CHTGR0E1_191	IKDFLPVQQV	.....	AESGRPLLI	IAEDIVGEALATLVNKR	RIRGGF
CH60_THETH_188	VRELLPILEQV	.....	AQTGKPLLI	IAEDVEGEALATLVNKL	RGTGL
TAU294831_189	VRELLPILEQV	.....	RQTGKPLLI	IAEDVEGEALATLVNKL	RGTGL
CH60_RICTS_190	VQPLVPVLEAV	.....	AHTGKPLVLI	ADDDVGEALTALINNL	KGSI
SYCCPNC_189	IAELVPVLEAV	.....	ARAGRPLLI	IAEDIEGEALATLVNKA	RGV
CPU308211_190	VQDLVPILEQV	.....	ARARKPLFI	IAEDIEKEALATLVNKL	RGNL
CH61_MYCLE_189	LPELLPMLEKV	.....	TESGKPLLI	IAEDLEGEALATLVNS	IRKTL
PSU21139_239	ARDLINILEDA	.....	IRSGFPVVI	IAEDIEQEALATLVNKL	RGSL
CH60_COWRU_191	IQPLLPILENI	.....	ARSGRPLLI	IAEDVEGEALSTLVNKL	RGGGL
RUBB_BRANA_245	ARDLVGVLEDA	.....	IRGGYPILI	IAEDIEQEALATLVNKL	RGTGL
SCCPN60_144	ARDLINVLEEA	.....	IRGQYPILI	IAEDIEQEALATLVNKL	RGSL
CH60_EHRI_153	IQPMVPLETI	.....	VRSNRAVVI	IAEDVEGEALTSVL	SKMRGSL
RUBB_ARATH_245	ARDLVGVLEDA	.....	IRGGYPILI	IAEDIEQEALATLVNKL	RGTGL
ATU49357_235	IKDIIPILEKT	.....	TQLRAPLLI	IAEDVTGEALATLVNKL	RGV
RUB1_BRANA_195	IKDIIPILEKT	.....	TQLRAPLLI	IAEDVTGEALATLVNKL	RGV
CH62_SYNY3_189	IAELVPVLEAV	.....	ARAGRPLLI	IAEDIEGEALATLVNKA	RGV
RUBA_RICCO_178	IKDIIPLEKT	.....	TQLRAPLLI	IAEDVTGEALATLVNKM	RGIL
CH60_ODOSI_190	VQDILLPILEQI	.....	TKTKRPLLI	IAEDVEKEALATLILNKL	RGIV
PSU21105_236	IKDIIPLEKT	.....	TQLRAPLLI	ISEDITGEALATLVNKL	RGIL
CH60_BRANA_224	LNSMVKVLELA	.....	LKSQRSLLI	IVAADLES DALAVLILNKL	RAGI
PMSARG2_105	IADLVPVLETV	.....	QKSSSPLVIL	AAEEVDGEALATLVNKN	RGV
RUB2_BRANA_234	IKDIIPILEKT	.....	TQLRAPLLI	IAEDVTGEALATLVNKL	RGV
CRECPN1A_75	ARDIITILESA	.....	IRGNYPLLI	MAEEVEQEALATLVNKL	RGTGL
P60_CRIGR_215	VQSIVPALEIA	.....	NAHRKPLVI	IAEDVDGEALSTLVNRL	KVGL
CRECPN1B_224	IRDIIPILEQV	.....	TRLNAPLLI	IAEDVSGEALATLVNKL	RGV
RUBA_WHEAT_191	IKDIIPLEQT	.....	TQLRCPLFI	IAEDITGEALATLVNKL	RGII
B47292_189	LPDLLPLEKV	.....	AGTGKPLLI	IAEDVEGEALATLVVNA	IRKTL
CELHSP60CP_206	VQDIVPALELA	.....	NKLRRPLVI	IAEDVDGEALTTLVLNRL	KVGL
P60_HUMAN_215	IQSIVPALEIA	.....	NAHRKPLVI	IAEDVDGEALSTLVNRL	KVGL
P60_MOUSE_215	VQSIVPALEIA	.....	NAHRKPLVI	IAEDVDGEALSTLVNRL	KVGL

FIG. 9(d)

P60 RAT 215 VQSI<sup>VP</sup>PALEIA.....NAHRKPL<sup>VI</sup>IAEDVDGEALSTLVNRLKVGL  
 A41931 215 VQSI<sup>VP</sup>PALEIA.....NAHRKPL<sup>VI</sup>IAEDVDGEALSTLVNRLKVGL  
 MHSP60A 197 VQSI<sup>VP</sup>PALEIA.....NAHRKPL<sup>VI</sup>IAEDVDGEALSTLVNRLKVGL  
 CH63 HELVI 218 ASQV<sup>VP</sup>PALELA.....NSQKKPL<sup>VI</sup>IAEDYDGEPLSVLVNKLKIGL  
 EGHSP60GN 205 IQOIL<sup>VP</sup>LEHI.....AKANRPL<sup>VI</sup>IADDVDSEALATLIINKINGKL  
 HS60 SCHPO 222 VQDIL<sup>PS</sup>LELA.....AQORRPL<sup>VI</sup>IAEDVDGEALACILNKLGRQGL  
 S61295 198 IHTIL<sup>PA</sup>LNVH.....VGTGRPL<sup>LI</sup>IADDVESEALTTMIFNKLQGL  
 TRBMTHSP 198 IHTIL<sup>PA</sup>LNVH.....VRSGRPL<sup>LI</sup>IADDVESEALTTMIFNKLQGL  
 ENHCPN60P 142 SQSV<sup>VP</sup>PLELC.....LKRKRPL<sup>VI</sup>ISDTIDGDALTTVLNKLRLGL  
 CH60 PLAFG 257 IQSIL<sup>PI</sup>LEIFAKNKQPLCIADDFESNEVLQTLINKLGAIKVLCIVTNSKYISADVGDLNLNHNHNMSSFD  
 CH60 MYCGE 189 IKEIL<sup>PL</sup>LEGS.....VENGNPL<sup>LI</sup>VAPDFAEEVVTTLAVNKLRTGI  
 HTOHSP60X 228 VQDI<sup>IP</sup>PALEAS.....TTLRRPL<sup>VI</sup>IAEDIEGEALAVCILNKLRRPT

FIG. 9(e)